Win, Lose, or Draw

Name	
Period	
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Problem:

Summing Up

1) List the molecular shapes in decreasing order of bond angle (from largest angle to smallest.)

2) What determines the shape of a molecule?

- 3) In the BCl₃, the boron (the central atom) has ______ electron clouds. In PCl₃, the phosphorous (the central atom) has ______ electron clouds. Explain why the geometries of BCl₃ and PCl₃ are different.
- 4) Summarize the effect of the presence of unshared electrons on the shape of a molecule.

5) Which shapes usually result in polar molecules? Which are usually nonpolar?

<u>Formula</u>	Name	Lewis Diagram	3-D Drawing	Shape	Bond Polarity	Molec. Polarity	Hybridization
CH₄							
H₂O							
HCN		14 14					
CO2							
NH ₃		tation and all terms		an N	* dar -	ta en la	
BF ₃							
CH₂O		х.					
SO4 ²⁻							
N ₂			2				
SO3						1. X.	
CH₃F			~				

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